



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

10/662,651
OIPE,
. 9/25/2003

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- Hand Carry directly to:
 U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
 - U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
- 4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 04/24/2003

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 10/662, 651
ATTN: NEW RULES CASES:	PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE
IWrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s)contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6Patentln 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
10Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric idehtifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 00/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
Patentin 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13_ Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid
	AMC - Biotechnology Systems Branch - 09/09/2003



OIPE

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RAW SEQUENCE LISTING
                                                            DATE: 09/25/2003
                    PATENT APPLICATION: US/10/662,651
                                                           TIME: 16:18:16
                    Input Set : A:\Seq listing.txt
                    Output Set: N:\CRF4\09252003\J662651.raw
      3 <110> APPLICANT: De Strooper, Bart
            Annaert, Wim
      6 <120> TITLE OF INVENTION: Binding Domains Between Presenilins and Their Substrates as
        Targets for Drug Screening
      9 <130> FILE REFERENCE: 2676-6086US
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/662,651
C--> 11 <141> CURRENT FILING DATE: 2003-09-15
     11 <150> PRIOR APPLICATION NUMBER: PCT/EP/02/043033
     12 <151> PRIOR FILING DATE: 2002-03-15
     14 <150> PRIOR APPLICATION NUMBER: EP01201015.3
     15 <151> PRIOR FILING DATE: 2001-03-16
                                                                 Doss Not Comply
     17 <160> NUMBER OF SEQ ID NOS: 22
                                                             Corrected Diskette Needed
     19 <170> SOFTWARE: PatentIn version 3.2
     21 <210> SEQ ID NO: 1
                                                             m3-4
     22 <211> LENGTH: 21
     23 <212> TYPE: PRT
     24 <213> ORGANISM: Artificial
     26 <220> FEATURE:
     27 <223> OTHER INFORMATION: Human transmembrane region 1 of presenilin 1
     29 <400> SEQUENCE: 1
     31 Val Ile Met Leu Phe Val Pro Val Thr Leu Cys Met Val Val Val Val
     35 Ala Thr Ile Lys Ser
     39 <210> SEQ ID NO: 2
     40 <211> LENGTH: 21
     41 <212> TYPE: PRT
     42 <213> ORGANISM: Artificial
     44 <220> FEATURE:
     45 <223> OTHER INFORMATION: Human transmembrane region 1 of presenilin 2
     47 <400> SEQUENCE: 2
     49 Val Ile Met Leu Phe Val Pro Val Thr Leu Cys Met Ile Val Val Val
                       5
     53 Ala Thr Ile Lys Ser
                  20
     57 <210> SEQ ID NO: 3
     58 <211> LENGTH: 8
     59 <212> TYPE: PRT
     60 <213> ORGANISM: Artificial
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63 <223> OTHER INFORMATION: carboxy-terminal of human presentlin 1

62 <220> FEATURE: .

65 <400> SEQUENCE: 3

67 Leu Ala Phe His Gln Phe Tyr Ile

TIME: 16:18:16

Input Set : A:\Seq listing.txt Output Set: N:\CRF4\09252003\J662651.raw 68 1 71 <210> SEQ ID NO: 4 72 <211> LENGTH: 8 73 <212> TYPE: PRT 74 <213> ORGANISM: Artificial 76 <220> FEATURE: 77 <223> OTHER INFORMATION: carboxy-terminal of human presentlin 2 79 <400> SEQUENCE: 4 81 Leu Ala Ser His Gln Leu Tyr Ile 82 1 85 <210> SEQ ID NO: 5 86 <211> LENGTH: 11 87 <212> TYPE: PRT 88 <213> ORGANISM: Artificial 90 <220> FEATURE: 91 <223> OTHER INFORMATION: Part of the transmembrane region of human APP 93 <400> SEQUENCE: 5 95 Thr Val Ile Val Ile Thr Leu Val Met Leu Lys 5 99 <210> SEQ ID NO: 6 100 <211> LENGTH: 5 101 <212> TYPE: PRT 102 <213> ORGANISM: Artificial 104 <220> FEATURE: 105 <223> OTHER INFORMATION: Part of the transmembrane region of telencephalin 107 <400> SEQUENCE: 6 109 Val Ala Gly Pro Trp 113 <210> SEQ ID NO: 7 114 <211> LENGTH: 34 115 <212> TYPE: PRT 116 <213> ORGANISM: Artificial 118 <220> FEATURE: 119 <223> OTHER INFORMATION: synthesized peptide 122 <220> FEATURE: 123 <221> NAME/KEY: SITE 124 <222> LOCATION: (19)..(34) 125 <223> OTHER INFORMATION: conserved transmembrane region 127 <400> SEQUENCE: 7 129 Val Val Ile Ala Thr Val Ile Val Ile Thr Leu Val Met Leu Lys Lys 133 Lys Gln Cys Arg Gln Leu Arg Ile Ala Gly Arg Arg Leu Arg Gly Arg 134 137 Ser Arg 141 <210> SEQ ID NO: 8 142 <211> LENGTH: 18 143 <212> TYPE: PRT 144 <213> ORGANISM: Artificial 146 <220> FEATURE:

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/662,651

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PATENT APPLICATION: US/10/662,651
                                                                  TIME: 16:18:16
                      Input Set : A:\Seq listing.txt
                      Output Set: N:\CRF4\09252003\J662651.raw
    147 <223> OTHER INFORMATION: synthesized peptide
    149 <400> SEQUENCE: 8
    151 Val Val Ile Ala Thr Val Ile Val Ile Thr Leu Val Met Leu Lys Lys
                          5
    152 1
    155 Lys Gln
     159 <210> SEQ ID NO: 9
    160 <211> LENGTH: 17
    161 <212> TYPE: PRT
     162 <213> ORGANISM: Artificial
     164 <220> FEATURE:
     165 <223> OTHER INFORMATION: synthesized peptide
     168 <220> FEATURE:
    169 <221> NAME/KEY: misc_reature
170 <222> LOCATION: (1)..(1)
171 <223> OTHER INFORMATION: X is a palmityol group
173 <100> SEQUENCE: 9
175 Xaa Leu Val Gln Pro Phe Met Asp Gln Leu Ala Phe His Gln Phe Tyr
5 10 15
     169 <221> NAME/KEY: misc feature
W--> 175 Xaa/Leu Val Gln Pro Phe Met Asp Gln Leu Ala Phe His Gln Phe Tyr
     179 Ile
     183 <210> SEQ ID NO: 10
     184 <211> LENGTH: 32
     185 <212> TYPE: PRT
     186 <213> ORGANISM: Artificial
     188 <220> FEATURE:
     189 <223> OTHER INFORMATION: synthesized peptide
     192 <220> FEATURE:
     193 <221> NAME/KEY: SITE
     194 <222> LOCATION: (1)..(16)
     195 <223> OTHER INFORMATION: conserved transmembrane region
     197 <400> SEQUENCE: 10
     199 Gly Arg Gln Leu Arg Ile Ala Gly Arg Arg Leu Arg Gly Arg Ser Arg
                          5
     203 Leu Val Gln Pro Phe Met Asp Gln Leu Ala Phe His Gln Phe Tyr Ile
     204
                    20
                                            25
     207 <210> SEQ ID NO: 11
     208 <211> LENGTH: 16
     209 <212> TYPE: PRT
     210 <213> ORGANISM: Artificial
     212 <220> FEATURE:
     213 <223> OTHER INFORMATION: synthesized peptide
     215 <400> SEQUENCE: 11
     217 Leu Val Gln Pro Phe Met Asp Gln Leu Ala Phe His Gln Phe Tyr Ile
     218 1
                                                 10
     221 <210> SEQ ID NO: 12
     222 <211> LENGTH: 31
     223 <212> TYPE: PRT
     224 <213> ORGANISM: Artificial
     226 <220> FEATURE:
     227 <223> OTHER INFORMATION: synthesized peptide
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RAW SEQUENCE LISTING

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TIME: 16:18:16
                     PATENT APPLICATION: US/10/662,651
                     Input Set : A:\Seq listing.txt
                     Output Set: N:\CRF4\09252003\J662651.raw
     230 <220> FEATURE:
    231 <221> NAME/KEY: SITE
     232 <222> LOCATION: (16)..(31)
     233 <223> OTHER INFORMATION: conserved transmembrane region
     235 <400> SEQUENCE: 12
     237 Ala Thr Val Ile Val Ile Thr Leu Val Met Leu Lys Lys Lys Gln Gly
     238 1
     241 Arg Gly Leu Arg Ile Ala Gly Arg Arg Leu Arg Gly Arg Ser Arg
                   20
                                         25
     245 <210> SEQ ID NO: 13
     246 <211> LENGTH: 15
     247 <212> TYPE: PRT
     248 <213> ORGANISM: Artificial
     250 <220> FEATURE:
     251 <223> OTHER INFORMATION: synthesized peptide
     253 <400> SEQUENCE: 13
     255 Ala Thr Val Ile Val Ile Thr Leu Val Met Leu Lys Lys Lys Gln
                         5
                                              10
     259 <210> SEQ ID NO: 14
     260 <211> LENGTH: 9
     261 <212> TYPE: PRT
     262 <213> ORGANISM: Artificial
     264 <220> FEATURE:
     265 <223> OTHER INFORMATION: synthesized peptide
     268 <220> FEATURE:
    269 <221> NAME/KEY: misc feature
     270 <222> LOCATION: (1)..(1)
     271 <223> OTHER INFORMATION: X is a palmityol group
W--> 276 Xaa Leu Ala Phe His Gln Phe Tyr Ile Sel Jun 13
     273 400> SEQUENCE: 14
     276 1_
     279 <210> SEQ ID NO: 15
     280 <211> LENGTH: 13
     281 <212> TYPE: PRT
     282 <213> ORGANISM: Artificial
     284 <220> FEATURE:
     285 <223> OTHER INFORMATION: synthesized peptide
     288 <220> FEATURE:
     289 <221> NAME/KEY: misc feature
     290 <222> LOCATION: (1)..(1)
                                                              same enn
     291 <223 > OTHER INFORMATION: X is a palmityol group 293 <400 > SEQUENCE: 15
W--> 295 Xaa/Phe Met Asp Gln Leu Ala Phe His Gln Phe Tyr Ile
     299 <210> SEQ ID NO: 16
     300 <211> LENGTH: 24
     301 <212> TYPE: PRT
     302 <213> ORGANISM: Artificial
     304 <220> FEATURE:
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/662,651 TIME: 16:18:16 Input Set : A:\Seq listing.txt Output Set: N:\CRF4\09252003\J662651.raw 305 <223> OTHER INFORMATION: synthesized peptide 308 <220> FEATURE: 309 <221> NAME/KEY: SITE 310 <222> LOCATION: (1)..(16) 311 <223> OTHER INFORMATION: conserved transmembrane region 313 <400> SEQUENCE: 16 315 Gly Arg Gln Leu Arg Ile Ala Gly Arg Arg Leu Arg Gly Arg Ser Arg 316 1 10 5 319 Leu Ala Phe His Gln Phe Tyr Ile 320 323 <210> SEQ ID NO: 17 324 <211> LENGTH: 28 325 <212> TYPE: PRT 326 <213> ORGANISM: Artificial 328 <220> FEATURE: 329 <223> OTHER INFORMATION: synthesized peptide 332 <220> FEATURE: 333 <221> NAME/KEY: SITE 334 <222> LOCATION: (1)..(16) 335 <223> OTHER INFORMATION: conserved transmembrane region 337 <400> SEQUENCE: 17 339 Gly Arg Gln Leu Arg Ile Ala Gly Arg Arg Leu Arg Gly Arg Ser Arg 5 343 Phe Met Asp Gln Leu Ala Phe His Gln Phe Tyr Ile 20 344 347 <210> SEQ ID NO: 18 348 <211> LENGTH: 8 349 <212> TYPE: PRT 350 <213> ORGANISM: Artificial 352 <220> FEATURE: 353 <223> OTHER INFORMATION: synthesized peptide 355 <400> SEQUENCE: 18 357 Leu Ala Phe His Gln Phe Tyr Ile 358 1 361 <210> SEQ ID NO: 19 362 <211> LENGTH: 12 363 <212> TYPE: PRT 364 <213> ORGANISM: Artificial 366 <220> FEATURE: 367 <223> OTHER INFORMATION: synthesized peptide 369 <400> SEQUENCE: 19 371 Phe Met Asp Gln Leu Ala Phe His Gln Phe Tyr Ile 372 1 375 <210> SEQ ID NO: 20 376 <211> LENGTH: 16 377 <212> TYPE: PRT 378 <213> ORGANISM: Artificial 380 <220> FEATURE: 381 <223> OTHER INFORMATION: synthesized peptide

RAW SEQUENCE LISTING

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/662,651

DATE: 09/25/2003 TIME: 16:18:17

Input Set : A:\Seq listing.txt

Output Set: N:\CRF4\09252003\J662651.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:9; Xaa Pos. 1
Seq#:14; Xaa Pos. 1
Seq#:15; Xaa Pos. 1

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22

VERIFICATION SUMMARY

DATE: 09/25/2003

PATENT APPLICATION: US/10/662,651

TIME: 16:18:17

Input Set : A:\Seq listing.txt

Output Set: N:\CRF4\09252003\J662651.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:175 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0 L:275 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0 L:295 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0